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U. S. Department of Agriculture - Forest Service
CENTRAL STATES FOREST EXPERIMENT STATION

Technical Note 54.

In Cooperation With
SHAWNEE NATIONAL FOREST

VOLUME TABLE 1/

for
WHITE OAK
(*Quercus alba*)

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January 1, 1942
OCT-8 1947
U. S. DEPT. OF AGRICULTURE

UNION, JACKSON, and HARDIN COUNTIES, ILLINOIS

Merchantable Stem to a Variable Top Diameter Scribner Decimal C Log Rule in Tens

Diameter breast high (o.b.) Inches	Gross volume of stem in 16.3-foot logs to merchantable height:							Top d.i.b. at merchantable limit	Basis in trees
	1 log	1½ logs	2 logs	2½ logs	3 logs	3½ logs	4 logs		
	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Inches	Number
10	3	3						7.3	4
11	4	4						7.7	2
12	4	6	7					8.2	4
13	6	7	8	10				8.6	6
14	7	9	10	12				9.2	7
15	8	10	12	14				9.6	7
16	10	12	15	17	19	21		10.2	3
17	12	15	18	20	22	22		10.7	6
18	14	17	21	24	26	29		11.2	8
19	16	20	24	27	31	34		11.8	2
20	18	23	28	32	35	39		12.2	4
21		26	31	36	40	44		12.8	3
22	30		36	41	46	50		13.4	3
23	34	40		46	52	57		14.0	2
24		45	52		58	64	69	14.6	1
25		51	58		65	71	77	15.2	3
26		56	65		72	79	86	15.9	1
27		63	72		80	88	95	16.6	4
28		69	79		88	97	105	17.4	1
29		76	87		98	107	116	18.2	3
30		84	96	107		117	127	19.0	2
31		91	105	117		128	139	19.8	3
32		100	114	128		140	152	20.8	2
33			124	139		152	165	21.8	2
34			135	151		165	179	22.9	1
35			146	163		179	194	24.1	-
36			158	176		193		25.4	2
37				190		208		26.8	1

Basis in trees-- number	10	16	17	19	7	10	8	--	87

1/ Data taken in Union County at Huston Hollow and at Grimsby; in Jackson County at Cedar Creek Hill by O. P. Stabo of the U. S. Forest Service, Shawnee National Forest; and in Hardin County at the Kaskaskia Experimental Forest by J. G. Kuenzel and C. E. Sutton of the Central States Forest Experiment Station. Scaled as 16.3-foot log lengths above a 1.0-foot stump and as 8.15-foot top logs.

Table prepared in 1941 by the equation method. Coefficient of multiple correlation (R) was .99. Standard error of estimate is approximately 14 percent of estimated volume. Block shows the limits of basic data.

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